Attorney Docket No.: LVIP:106US

U.S. Patent Application No.: 10/604,135 Reply to Office Action of September 27, 2005

Date: November 30, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

1. (Previously presented) A microtome or ultramicrotome having a knife, a specimen arm

movable relative to the knife, at least one light source acting as a base-mounted illumination

system, at least one light source acting as an incident illumination system and at least one light

source acting as an internal preparation illumination system, and wherein all said illumination

systems illuminate a region around the preparation and all illumination systems encompass light-

emitting diodes.

2. (Original) The microtome or ultramicrotome as defined in Claim 1, wherein the base-

mounted illumination system encompasses at least one light-emitting diode and a frosted glass

disk mounted in front of the light-emitting diode.

3. (Currently amended) The microtome or ultramicrotome as defined in Claim 2, wherein

the at least one light-emitting diode is mounted on the microtome in such a way that a light beam

proceeding from the base-mounted illumination system is reflected by a back side of the knife

and at the preparation so as thereby to achieve uniform illumination of [[the]] a gap between the

knife and preparation.

4. (Original) The microtome or ultramicrotome as defined in Claim 3, wherein the base-

mounted illumination system has a first and a second light-emitting diode which are inclined

with respect to one another at an angle (α) , at least one of the light-emitting diodes coinciding

respectively with a first or a second optical axis of an observation microscope.

5. (Withdrawn) The microtome or ultramicrotome as defined in Claim 1, wherein the

incident illumination system is formed of several light-emitting diodes.

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- 6. (Withdrawn) The microtome or ultramicrotome as defined in Claim 5, wherein the light-emitting diodes are arranged at an inclination in order to optimize brightness.
- 7. (Withdrawn) The microtome or ultramicrotome as defined in Claim 5, wherein a frosted glass disk is provided between the light-emitting diodes and a water surface in a collection pan.
- 8. (Withdrawn) The microtome or ultramicrotome as defined in Claim 7, wherein approximately hundred light-emitting diodes are arranged in planar fashion, and define an illumination direction that is directed toward the collection pan at the knife.
- 9. (Withdrawn) The microtome or ultramicrotome as defined in Claim 1, wherein power is supplied to the light-emitting diodes via a battery.
- 10. (Previously presented) A microtome or ultramicrotome having a knife, a specimen arm movable relative to the knife, at least one light source acting as a base-mounted illumination system, at least one light source acting as an incident illumination system, and at least one light source acting as an internal preparation illumination system, wherein the base-mounted illumination system and the internal preparation illumination system encompass light-emitting diodes.
- 11. (Previously presented) A microtome or ultramicrotome having a knife, a specimen arm movable relative to the knife, at least one light source acting as a base-mounted illumination system, at least one light source acting as an incident illumination system, and at least one light source acting as an internal preparation illumination system, and wherein the base-mounted illumination system, the incident illumination system and the internal preparation illumination system encompass light-emitting diodes.